Physica C 216 (1993) 495–498
North-Holland

PHYSICA C

Author Index to Volume 216

Adachi, S., see A. Tokiwa-Yamamoto **216**, 250
Adhikari, K., see A.K. Pradhan **216**, 169
Akimitsu, J., see M. Uehara **216**, 453
Allgeier, C., see A.E. Schlögl **216**, 417
Andersson, B.M. and B. Sundqvist, Thermal conductivity of $YBa_2Cu_4O_8$ under high pressure **216**, 187
Antokhina, V.U., see Yu.I. Latyshev **216**, 471

Baratoff, A., see J. Mannhart **216**, 401
Bardal, A. and O. Eibl, The interfacial atomic structure of epitaxial YBCO thin films on Y_2O_3 **216**, 365
Bauer, M.J., see J.A. Schlueter **216**, 305
Beauvais, L., see R.L. Meng **216**, 21
Beck, H., see T. Schneider **216**, 432
Behner, H., K. Rührnschopf, G. Wedler and W. Rauch, Growth and characterization of $YBa_2Cu_3O_{7-\delta}$ thin films with specifically reduced critical temperature **216**, 333
Beno, M.A., see P.G. Radaelli **216**, 29
Bhattacharya, D. and H.S. Maiti, Role of Sb doping in governing the thermal conductivity of Bi–Pb–Sr–Ca–Cu–O superconductors between 10 and 150 K **216**, 147
Blechschmidt, J., see A. Burau **216**, 284
Bonjour, E., see C. Marcenat **216**, 443
Bormann, D., see T. Schneider **216**, 432
Brabers, V.A.M., see D. Hu **216**, 315
Burau, A., J. Blechschmidt, H.-J. Weber, V.V. Pavlov, M. Lenkens and G. Linker, Polar Kerr effects and magnetic circular dichroism in $YBa_2Cu_3O_{7-\delta}$ films **216**, 284

Calemczuk, R., see C. Marcenat **216**, 443
Canfield, P.C., see F.C. Chou **216**, 66
Carmona, F., see S. Dubois **216**, 111
Casañ-Pastor, N., P. Gomez-Romero, A. Fuertes, J.M. Navarro, M.J. Sanchis and S. Ondoño, Electrochemical oxidation of lanthanum cuprates Superconductivity versus thermal treatment in $La_2CuO_{4+\delta}$ **216**, 478
Chaddah, P., see A.K. Pradhan **216**, 169
Chanderkant, see K.K. Saini **216**, 59
Chandra, S., see K.K. Saini **216**, 59
Chen, Y.J., see H.T. Ren **216**, 447
Cheong, S.-W., see F.C. Chou **216**, 66
Cho, J.M., see J.A. Schlueter **216**, 305
Chou, F.C., D.C. Johnston, S.-W. Cheong and P.C. Canfield, Preparation, magnetization and electrical resistivity of electrochemically oxidized $La_2CuO_{4+\delta}$ single crystals **216**, 66
Christensen, N.E., see C.O. Rodriguez **216**, 12
Chu, C.W., see R.L. Meng **216**, 21
Crandles, D.A., T. Timusk, J.D. Garret and J.E. Greedan, Temperature dependence of the mid-infrared absorption in $La_{1.84}Sr_{0.16}NiO_{4+\delta}$ **216**, 94
Currie, D.B. and M.T. Weller, The crystal structures of $Dy_2Ba_4Cu_7O_{14+\delta}$ and $Nd_2Ba_4Cu_7O_{14+\delta}$ A high resolution powder neutron diffraction study **216**, 140

Daniel, P., see F. Goutenoire **216**, 243
Däumling, M., see A. Perin **216**, 339
De Jonge, W.J.M., see D. Hu **216**, 315
Diederichs, J., see A.E. Schlögl **216**, 417
Dubois, S., F. Carmona and S. Flandrois, Evidence for eddy currents and skin effect in 123/Ag random composites **216**, 111
Dupree, R., see A. Gencten **216**, 491

Eibl, O., see A. Bardal **216**, 365
Emmen, J.H.P.M., see D. Hu **216**, 315
Engelsberg, S., Replacing Ca by Cd in the tetragonal superconducting series $BaCa_xCd_{1-x}LaCu_3O_y$, $0 \le x \le 1$ **216**, 124

Flandrois, S., see S. Dubois **216**, 111
Flükiger, R., see A. Perin **216**, 339
Freeman, A.J., see D.L. Novikov **216**, 273
Fuertes, A., see N. Casañ-Pastor **216**, 478
Fugol', I., V. Samovarov, A. Ratner, V. Zhuravlev, G. Saemann-Ischenko, M. Lippert and B. Holzapfel, Anomalies in the temperature behavior of absorption in the optical 1.5–3.0 eV range for the high-T_c superconductor $YBa_2Cu_3O_{7-\delta}$ **216**, 391

Gan, Z.Z., see X. Zhu **216**, 153
Garret, J.D., see D.A. Crandles **216**, 94
Gayle, F.W., see M. Turchinskaya **216**, 205
Geiser, U., see J.A. Schlueter **216**, 305
Gencten, A., R. Dupree and D.M. Paul, NMR evidence for the O–T structural transition in $YBa_2(Cu_{1-x}M_x)_3O_{7-\delta}$ (M=Co, Al and Ga) **216**, 491
Ghosh, B., see J.B. Mandal **216**, 195
Gomez-Romero, P., see N. Casañ-Pastor **216**, 478
Gonda, S., H. Nagata, M. Kawasaki, M. Yoshimoto and H. Koinuma, In situ surface analysis of $SrCuO_2$ heteroepitaxy on $SrTiO_3$ substrate using X-ray photoelectron spectroscopy **216**, 160
Gorlova, I.G., see Yu.I. Latyshev **216**, 471
Goutenoire, F., P. Daniel, M. Hervieu, G. Van Tendeloo, C. Michel, A. Maignan and B. Raveau, New mercury-based superconductors with the "1201" structure $Hg_{0.4}Pr_{0.6}Sr_{2-x}Pr_xCuO_{4+\delta}$ and $Hg_{0.3}Pb_{0.7}Sr_{2-x}La_xCuO_{4+\delta}$ **216**, 243

Goutenoire, F., see M. Hervieu **216**, 264
Graf, T., see E. Janod **216**, 129
Grasso, G., see A. Perin **216**, 339
Greedan, J.E., see D.A. Crandles **216**, 94
Gunasekaran, R.A., J.V. Yakhmi and R.M. Iyer, Synthesis and superconducting properties of $Ca_{1-x}R_xBaLaCu_3O_{7-\delta}$ (R = Ce and Nd) systems **216**, 181
Guo, J.D., see A. Schilling **216**, 6

Hagberg, J., S. Leppävuori and A. Uusimäki, Transport properties of screen-printed melt-textured (Bi,Pb)–Sr–Ca–Cu–O superconducting thick films **216**, 325
Hayashi, A., H. Tamura and Y. Ueda, Successive structural phase transitions in stoichiometric La_2NiO_4 observed by X-ray diffraction **216**, 77
Hayashi, A., see H. Tamura **216**, 83
Hejtmánek, J., see K. Knížek **216**, 211
Henry, J.Y., see C. Marcenat **216**, 443
Hensel, B., see A. Perin **216**, 339
Hervieu, M., see A. Maignan **216**, 1
Hervieu, M., see F. Goutenoire **216**, 243
Hervieu, M., see D. Pelloquin **216**, 257
Hervieu, M., G. Van Tendeloo, A. Maignan, C. Michel, F. Goutenoire and B. Raveau, New 1212-type superconductors with a T_c up to 85 K in the system Hg–Pr–Sr–Ca–Cu–O **216**, 264
Hewitt, K.C., A. Martin, Y.H. Shi and M.J.G. Lee, Effects of Pb doping on the Raman spectrum of $Bi_2Sr_2CuO_{6+\delta}$ **216**, 463
Hinks, D.G., see P.G. Radaelli **216**, 29
Holzapfel, B., see I. Fugol' **216**, 391
Horiuchi, S., see A. Ono **216**, 165
Hu, D., V.A.M. Brabers, J.H.P.M. Emmen and W.J.M. De Jonge, The temperature dependence of the irreversibility line of $Bi_2Sr_2CaCu_2O_x$ superconductors **216**, 315
Hu, S.F., see R.S. Liu **216**, 237
Huang, Z.J., see R.L. Meng **216**, 21
Hunter, B.A., see P.G. Radaelli **216**, 29

Isawa, K., see A. Tokiwa-Yamamoto **216**, 250
Itoh, M., see A. Tokiwa-Yamamoto **216**, 250
Iyer, R.M., see R.A. Gunasekaran **216**, 181

Janod, E., A. Junod, T. Graf, K.-Q. Wang, G. Triscone and J. Muller, Split superconducting transitions in the specific heat and magnetic susceptibility of $YBa_2Cu_3O_x$ versus oxygen content **216**, 129
Jeandupeux, O., see A. Schilling **216**, 6
Jeandupeux, O., A. Schilling and H.R. Ott, Specific heat of superconducting $HgBa_2Ca_2Cu_3O_8$ between 65 and 200 K **216**, 17
Jefferson, D.A., see R.S. Liu **216**, 237
Johnston, D.C., see F.C. Chou **216**, 66
Jorgensen, J.D., see P.G. Radaelli **216**, 29
Junod, A., see E. Janod **216**, 129

Kaiser, D.L., see M. Turchinskaya **216**, 205
Kawasaki, M., see S. Gonda **216**, 160
Keshri, S., see J.B. Mandal **216**, 195
Khoder, A.F., see C. Marcenat **216**, 443
Kleinsasser, A., see J. Mannhart **216**, 401
Klemm, R.A., see S.H. Liu **216**, 293
Knapp, G.S., see P.G. Radaelli **216**, 29
Knížek, K., E. Pollert, D. Sedmidubský, J. Hejtmánek and J. Prachařová, Single-phase region of the 2212-Bi–Sr–Ca–Cu–O superconductor **216**, 211
Koinuma, H., see S. Gonda **216**, 160
Kukhta, N.P., see Yu.I. Latyshev **216**, 471
Kumar, S., see A.K. Pradhan **216**, 169

Lahtinen, M.J., see J.A.J. Paasi **216**, 382
Latyshev, Yu.I., I.G. Gorlova, A.M. Nikitina, V.U. Antokhina, S.G. Zybtsev, N.P. Kukhta and V.N. Timofeev, Growth and study of single-phase 2212 BSCCO whiskers of submicron cross-sectional area **216**, 471
Lavrov, A.N., Decrease of T_c with low-temperature oxygen ordering in 90 K superconductors $YBa_2Cu_3O_{6+x}$ Evidence of the over-hole-doped state **216**, 36
Lee, M.J.G., see K.C. Hewitt **216**, 463
Lenkens, M., see A. Burau **216**, 284
Leppävuori, S., see J. Hagberg **216**, 325
Li, J., see X. Zhu **216**, 153
Li, Y.J., see X. Zhu **216**, 153
Lian, G.J., see X. Zhu **216**, 153
Liezhao, C., see C. Xianhui **216**, 458
Lindemer, T.B., E.D. Specht, C.S. MacDougall, G.M. Taylor and S.L. Pye, Nonstoichiometry and decomposition of $La_{1+z}Ba_{2-z}Cu_3O_y$ and $La_4BaCu_5O_{13-w}$ **216**, 99
Linker, G., see A. Burau **216**, 284
Lippert, M., see I. Fugol' **216**, 391
Liu, R., see X. Zhu **216**, 153
Liu, R.S., D.S. Shy, S.F. Hu and D.A. Jefferson, Superconductivity up to 32 K in a new family of the Hg-containing (Pb, Hg)(Sr, La)$_2CuO_{5-\delta}$ (1201) system **216**, 237
Liu, S.H. and R.A. Klemm, Energy gap structure and tunneling characteristics of layered superconductors **216**, 293

MacDougall, C.S., see T.B. Lindemer **216**, 99
Maignan, A., C. Michel, G. Van Tendeloo, M. Hervieu and B. Raveau, Superconductivity up to 110 K in the 1212-Hg based cuprate $Nd_{1-x}Ca_xBa_2Hg_{1-x'}Cu_{2+x'}O_{6+y}$ **216**, 1
Maignan, A., see F. Goutenoire **216**, 243
Maignan, A., see D. Pelloquin **216**, 257
Maignan, A., see M. Hervieu **216**, 264
Maiti, H.S., see D. Bhattacharya **216**, 147
Mandal, J.B., S. Keshri and B. Ghosh, Resistivity anisotropy in the Y-substituted Bi-2212 system **216**, 195
Mannhart, J., A. Kleinsasser, J. Ströbel and A. Baratoff, Properties of superconducting p–n junctions **216**, 401
Marcenat, C., R. Calemczuk, A.F. Khoder, E. Bonjour, C. Marin and J.Y. Henry, Calorimetric study of the superconducting transition in $Nd_{1.85}Ce_{0.15}CuO_{4-\delta}$ **216**, 443
Marin, C., see C. Marcenat **216**, 443

Martin, A., see K.C. Hewitt **216**, 463
Meintrup, T., see T. Schneider **216**, 432
Meng, R.L., L. Beauvais, X.N. Zhang, Z.J. Huang, Y.Y. Sun, Y.Y. Xue and C.W. Chu, Synthesis of the high-temperature superconductors $HgBa_2CaCu_2O_{6+\delta}$ and $HgBa_2Ca_2Cu_3O_{8+\delta}$ **216**, 21
Michel, C., see A. Maignan **216**, 1
Michel, C., see F. Goutenoire **216**, 243
Michel, C., see D. Pelloquin **216**, 257
Michel, C., see M. Hervieu **216**, 264
Muller, J., see E. Janod **216**, 129
Muroi, M. and R. Street, Percolative superconducting transition in $Y_{1-x}Pr_xBa_2Cu_3O_y$ **216**, 345

Nagata, H., see S. Gonda **216**, 160
Nakata, H., see M. Uehara **216**, 453
Navarro, J.M., see N. Casañ-Pastor **216**, 478
Neumeier, J.J., see A.E. Schlögl **216**, 417
Nikitenko, V., see M. Turchinskaya **216**, 205
Nikitina, A.M., see Yu.I. Latyshev **216**, 471
Novikov, D.L. and A.J. Freeman, Van Hove singularities and the role of doping in the stabilization, synthesis and superconductivity of $HgBa_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ **216**, 273

Ondoño, S., see N. Casañ-Pastor **216**, 478
Ono, A. and S. Horiuchi, Synthesis of a new superconductor $(Cu_{0.6}Ce_{0.4})Sr_2Y_{1.2}Ce_{0.8}Cu_2O_z$ under high oxygen pressures **216**, 165
Ott, H.R., see A. Schilling **216**, 6
Ott, H.R., see O. Jeandupeux **216**, 17

Paasi, J.A.J. and M.J. Lahtinen, Characterization of high-T_c superconducting tapes using Hall sensors **216**, 382
Paul, D.M., see A. Gencten **216**, 491
Pavlov, V.V., see A. Burau **216**, 284
Pelloquin, D., M. Hervieu, C. Michel, G. Van Tendeloo, A. Maignan and B. Raveau, A 94 K Hg-based superconductor with a "1212" structure $Hg_{0.5}Bi_{0.5}Sr_2Ca_{1-x}R_xCu_2O_{6+\delta}$ (R=Nd, Y, Pr) **216**, 257
Peltzer y Blancá, E.L., see C.O. Rodriguez **216**, 12
Peña, J.L., see V. Sosa **216**, 89
Perin, A., G. Grasso, M. Däumling, B. Hensel, E. Walker and R. Flükiger, Hot rolling of silver-sheathed Bi(2223) tapes **216**, 339
Pollert, E., see K. Knížek **216**, 211
Polyanskii, A., see M. Turchinskaya **216**, 205
Prachařová, J., see K. Knížek **216**, 211
Pradhan, A.K., S.B. Roy, S. Kumar, P. Chaddah, R. Prasad, N.C. Soni and K. Adhikari, H_{c1} measurements in sintered YBaCuO and Bi(Pb)SrCaCuO using remanent second-harmonic generation **216**, 169
Prasad, R., see A.K. Pradhan **216**, 169
Pye, S.L., see T.B. Lindemer **216**, 99

Qing, H., see H.T. Ren **216**, 447
Qiu, X.G., S. Takahashi and M. Tachiki, Magnetic pinning by planar defects in type-II superconductors **216**, 49

Radaelli, P.G., J.L. Wagner, B.A. Hunter, M.A. Beno, G.S. Knapp, J.D. Jorgensen and D.G. Hinks, Structure, doping and superconductivity in $HgBa_2CaCu_2O_{6+\delta}$ ($T_c \leqslant 128$ K) **216**, 29
Ratner, A., see I. Fugol' **216**, 391
Rauch, W., see H. Behner **216**, 333
Ravat, K.B., see K.K. Saini **216**, 59
Raveau, B., see A. Maignan **216**, 1
Raveau, B., see F. Goutenoire **216**, 243
Raveau, B., see D. Pelloquin **216**, 257
Raveau, B., see M. Hervieu **216**, 264
Ren, H.T., K.N.R. Taylor, Y.J. Chen, J.A. Xia and H. Qing, Enhanced critical current density in melt-textured $(Y_{1-x}Pr_x)Ba_2Cu_3O_y$ **216**, 447
Ren, Z.F. and J.H. Wang, Enhanced formation of 1223 phase by partial replacement of Bi for Tl in in-situ synthesized silver-sheathed superconducting tape of $Tl_{1-x}Bi_xSr_{2-y}Ba_yCa_2Cu_3O_{9-\delta}$ **216**, 199
Rodriguez, C.O., N.E. Christensen and E.L. Peltzer y Blancá, Electronic structure of mercury-based high-T_c compounds: $HgBa_2Ca_{n-1}Cu_nO_{2n+2}$ ($n=1, 2, 3$) **216**, 12
Roy, S.B., see A.K. Pradhan **216**, 169
Roytburd, A., see M. Turchinskaya **216**, 205
Rührnschopf, K., see H. Behner **216**, 333

Saemann-Ischenko, G., see I. Fugol' **216**, 391
Saini, K.K., C.P. Sharma, Chanderkant, D.K. Suri, K.B. Ravat, S. Chandra and S.P. Tewari, Effect of thallium concentration on Tl-2201 superconducting phase by flash sintering process **216**, 59
Samovarov, V., see I. Fugol' **216**, 391
Sanchis, M.J., see N. Casañ-Pastor **216**, 478
Schafroth, S., see T. Schneider **216**, 432
Schilling, A., O. Jeandupeux, J.D. Guo and H.R. Ott, Magnetization and resistivity study on the 130 K superconductor in the Hg–Ba–Ca–Cu–O system **216**, 6
Schilling, A., see O. Jeandupeux **216**, 17
Schilling, J.S., see A.E. Schlögl **216**, 417
Schlögl, A.E., J.J. Neumeier, J. Diederichs, C. Allgeier, J.S. Schilling and W. Yelon, Transport, structural, and magnetic properties of the single-copper–oxygen layer $Bi_2Sr_{2-x}La_xCuO_y$ system **216**, 417
Schlueter, J.A., U. Welp, H.H. Wang, U. Geiser, J.M. Williams, M.J. Bauer, J.M. Cho, J.L. Smart and S.A. Taha, Synthesis, superconductivity and ESR characterization of Rb_3C_{60} crystals **216**, 305
Schmidt, A., see T. Schneider **216**, 432
Schneider, T., H. Beck, D. Bormann, T. Meintrup, S. Schafroth and A. Schmidt, Attractive Hubbard model in the strong-coupling regime Relation between transition temperature, magnetic penetration depth and gap **216**, 432
Sedmidubský, D., see K. Knížek **216**, 211
Shapiro, A.J., see M. Turchinskaya **216**, 205
Sharma, C.P., see K.K. Saini **216**, 59
Shekhar, S., see P. Venugopal Reddy **216**, 116
Sherman, E.Ya., Long-wave Raman active phonons in

$YBa_2Cu_3O_{7-x}$ crystals with site-selective isotope substitution **216**, 439
Shi, Y.H., see K.C. Hewitt **216**, 463
Shy, D.S., see R.S. Liu **216**, 237
Smart, J.L., see J.A. Schlueter **216**, 305
Soni, N.C., see A.K. Pradhan **216**, 169
Sosa, V. and J.L. Peña, Behavior of superconducting samples levitated in a static magnetic field Study in a non-vertical configuration **216**, 89
Specht, E.D., see T.B. Lindemer **216**, 99
Street, R., see M. Muroi **216**, 345
Ströbel, J., see J. Mannhart **216**, 401
Sun, Y.Y., see R.L. Meng **216**, 21
Sundqvist, B., see B.M. Andersson **216**, 187
Suri, D.K., see K.K. Saini **216**, 59

Tachiki, M., see X.G. Qiu **216**, 49
Taha, S.A., see J.A. Schlueter **216**, 305
Takahashi, S., see X.G. Qiu **216**, 49
Tamura, H., see A. Hayashi **216**, 77
Tamura, H., A. Hayashi and Y. Ueda, Phase diagram of $La_2NiO_{4+\delta}$ ($0 \leq \delta \leq 0.18$) I. Phases at room temperature and phase transition above $\delta = 0.15$ **216**, 83
Taylor, G.M., see T.B. Lindemer **216**, 99
Taylor, K.N.R., see H.T. Ren **216**, 447
Tewari, S.P., see K.K. Saini **216**, 59
Theodorakis, S., A new kinetic term in the phenomenology of layered superconductors **216**, 173
Timofeev, V.N., see Yu.I. Latyshev **216**, 471
Timusk, T., see D.A. Crandles **216**, 94
Tokiwa-Yamamoto, A., K. Isawa, M. Itoh, S. Adachi and H. Yamauchi, Composition, crystal structure and superconducting properties of Hg–Ba–Cu–O and Hg–Ba–Ca–Cu–O superconductors **216**, 250
Triscone, G., see E. Janod **216**, 129
Turchinskaya, M., D.L. Kaiser, F.W. Gayle, A.J. Shapiro, A. Roytburd, V. Vlasko-Vlasov, A. Polyanskii and V. Nikitenko, Direct observation of anisotropic flux penetration in twinned $YBa_2Cu_3O_{7-x}$ single and polycrystals **216**, 205

Ueda, Y., see A. Hayashi **216**, 77
Ueda, Y., see H. Tamura **216**, 83
Uehara, M., H. Nakata and J. Akimitsu, Superconductivity in the new compound $Sr_2CuO_2(CO_3)_{1-x}(BO_3)_x$ The new method for carrier doping on layered copper-oxycarbonates **216**, 453
Uusimäki, A., see J. Hagberg **216**, 325

Van Tendeloo, G., see A. Maignan **216**, 1
Van Tendeloo, G., see F. Goutenoire **216**, 243
Van Tendeloo, G., see D. Pelloquin **216**, 257
Van Tendeloo, G., see M. Hervieu **216**, 264
Venugopal Reddy, P. and S. Shekhar, Ultrasonic velocity and attenuation studies of RE–Ba–Cu–O superconductors **216**, 116
Vlasko-Vlasov, V., see M. Turchinskaya **216**, 205

Wagner, J.L., see P.G. Radaelli **216**, 29
Walker, E., see A. Perin **216**, 339
Wang, H.H., see J.A. Schlueter **216**, 305
Wang, J.H., see Z.F. Ren **216**, 199
Wang, K.-Q., see E. Janod **216**, 129
Weber, H.-J., see A. Burau **216**, 284
Wedler, G., see H. Behner **216**, 333
Weller, M.T., see D.B. Currie **216**, 140
Welp, U., see J.A. Schlueter **216**, 305
Williams, J.M., see J.A. Schlueter **216**, 305

Xia, J.A., see H.T. Ren **216**, 447
Xianhui, C., D. Zhongfen, Q. Yitai, C. Zhaojia, C. Zuyao and C. Liezhao, The synthesis and structure of a new Bi-based copper oxide with (Bi, M)–O monolayers: (Bi, M)Sr_2(R, Ce)$_3Cu_2O_{11-\delta}$ **216**, 458
Xiong, G.C., see X. Zhu **216**, 153
Xue, Y.Y., see R.L. Meng **216**, 21

Yakhmi, J.V., see R.A. Gunasekaran **216**, 181
Yamauchi, H., see A. Tokiwa-Yamamoto **216**, 250
Yelon, W., see A.E. Schlögl **216**, 417
Yitai, Q., see C. Xianhui **216**, 458
Yoshimoto, M., see S. Gonda **216**, 160

Zhang, X.N., see R.L. Meng **216**, 21
Zhaojia, C., see C. Xianhui **216**, 458
Zhongfen, D., see C. Xianhui **216**, 458
Zhu, X., G.C. Xiong, R. Liu, Y.J. Li, G.J. Lian, J. Li and Z.Z. Gan, The growth mechanism and topography of superconducting $YBa_2Cu_3O_{7-\delta}$ and BiSrCaCuO-2201 films studied by scanning tunneling microscopy **216**, 153
Zhuravlev, V., see I. Fugol' **216**, 391
Zuyao, C., see C. Xianhui **216**, 458
Zybtsev, S.G., see Yu.I. Latyshev **216**, 471

Physica C 216 (1993) 499–500
North-Holland

PHYSICA C

Analytic Subject Index to Volume 216

AC susceptibility 111, 124, 129, 140, 169
Angle-resolved photoemission 160
Applications of high-T_c superconductors 89, 153, 199, 339, 401

Band structure 12, 401
BCS model 432
Bose condensation 432

Charge transfer 187
Copper-oxycarbonate 453
Critical current density 6, 66, 199, 325, 339, 382, 447, 471
Critical state model 111
Cu–O planes 160

Defect structures 29, 365

Electrical resistivity 6, 36, 59, 66, 187, 195, 458, 471
Electrochemical oxidation 66, 478
Electronic structure 273
–of $HgBa_2Ca_{n-1}Cu_nO_{2n+2}$ ($n=1, 2,$) 12
–of $YBa_2Cu_3O_{7-\delta}$ 391
Electron–phonon coupling 147
Energy gap 293, 391
ESR 305

Fermi surface 12, 273
Fluctuation effects 17, 443
Flux creep 315, 325
Flux pinning 49, 89, 205, 315

Ginzburg–Landau theory 173
Grain alignment 339
Grain boundaries 153
Granular superconductivity 111, 116, 169, 205

Hall effect 382
Hetero-interface 160
High oxygen pressure 165
High-pressure effect 187
HREM 1, 237, 243, 250, 257, 264, 365
Hubbard Hamiltonian 432

Infrared spectroscopy 94
Inhomogeneous superconductor 345
Interfaces 365
Irreversibility line 6, 315
Isotope substitution 439

Lattice parameters 59, 124, 140
Lawrence–Doniach model 173
Layered superconductors 173, 293
Levitation 89
Lower critical field H_{c1} 169

Magnetic susceptibility 6, 17, 21, 59, 250, 305, 345, 417, 443, 478
Magnetization 315, 447
Magneto-optical imaging 205
Magneto-optical spectroscopy 284
Microwave absorption 305

Neutron diffraction 29, 140, 417
NMR 491
Normal-state properties 66, 116, 195, 284
–of $La_{1.84}Sr_{0.16}NiO_{4+\delta}$ 94

Optical conductivity 94
Optical spectroscopy 391
O–T transition 77, 83, 491
Oxygen ordering 36
Oxygen stoichiometry 36, 77, 99, 129, 417

Penetration depth 49, 432
Percolation model 345
Phase diagram 83, 99
Phonon mean free path 147
Phonon spectrum 439, 463

Quasi-particle scattering 147

Raman scattering 439, 463
Rietveld analysis 453

Scanning tunneling microscopy 153
Single-crystal growth 471
Skin effect 111
Specific heat 6, 129, 443
–of $Dy_2Ba_4Cu_7O_{14+\delta}$ 140
–of $HgBa_2Ca_2Cu_3O_8$ 17
–of $Nd_2Ba_4Cu_7O_{14+\delta}$ 140
SQUID 305
Strong-coupling regime 432
Structural phase transition 77, 83
Structure
–of $Bi_{2+y}Sr_{3-y-x}Ca_xCu_2O_{8+\delta}$ 211
–of $(Cu_{0.6}Ce_{0.4})Sr_2Y_{1.2}Ce_{0.8}Cu_2O_z$ 165
–of $Hg_{0.3}Pb_{0.7}Sr_{2-x}La_xCuO_{4+\delta}$ 243
–of $Hg_{0.4}Pr_{0.6}Sr_{2-x}Pr_xCuO_{4+\delta}$ 243
–of $Hg_{0.5}Bi_{0.5}Dr_2Ca_{1-x}R_xCu_2O_{6+\delta}$ (R=Nd, Y, Pr) 257
–of $HgBa_2CaCu_2O_{6+\delta}$ 29
–of Hg–Ba–Ca–Cu–O 250
–of Hg–Pr–Sr–Ca–Cu–O 264
–of $La_2NiO_{4+\delta}$ 77, 83
–of $Nd_{1-x}Ca_xBa_2Hg_{1-x}Cu_{2+x}O_{6+y}$ 1
–of $(Pb_{0.5}Hg_{0.5})(Sr_{2-x}La_x)CuO_{5-\delta}$ 237
–of $Tl_xBa_2Cu_2O_6$ 59
Substitution effects
–in $BaCa_xCd_{1-x}LaCu_3O_y$ 124
–in $Bi_2Sr_2CuO_{6+\delta}$ 463
–in $Bi_2Sr_{2-x}La_xCuO_y$ 417
–in $Ca_{1-x}R_xBaLaCu_3O_{7-\delta}$ 181
–in $HgBa_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ 273
–in $(Y_{1-x}Pr_x)Ba_2Cu_3O_y$ 447
–in $YBa_2(Cu_{1-x}M_x)_3O_{7-\delta}$ (M=Co, Al, Ga) 491
Superconducting p-n junctions 401
Superconducting tapes 382
Superconducting transition
–in $Y_{1-x}Pr_xBa_2Cu_3O_y$ 345
Surface analysis 333
Synthesis
–of $(Bi,M)Sr_2(R,Ce)_3Cu_2O_{11-\delta}$ 458
–of $Bi_{2+y}Sr_{3-y-x}Ca_xCu_2O_{8+\delta}$ 211
–of $Ca_{1-x}R_xBaLaCu_3O_{7-\delta}$ 181
–of $(Cu_{0.6}Ce_{0.4})Sr_2Y_{1.2}Ce_{0.8}Cu_2O_z$ 165
–of $Hg_{0.3}Pb_{0.7}Sr_{2-x}La_xCuO_{4+\delta}$ 243
–of $Hg_{0.4}Pr_{0.6}Sr_{2-x}Pr_xCuO_{4+\delta}$ 243
–of $HgBa_2Ca_2Cu_3O_{8+\delta}$ 21
–of $HgBa_2CaCu_2O_{6+\delta}$ 21
–of Hg–Pr–Sr–Ca–Cu–O 264
–of $La_{1+z}Ba_{2-z}Cu_3O_y$ 99
–of $La_2CuO_{4+\delta}$ 66, 478
–of $La_4BaCu_5O_{13-w}$ 99
–of $Nd_{1-x}Ca_xBa_2Hg_{1-x}Cu_{2+x}O_{6+y}$ 1
–of $(Pb_{0.5}Hg_{0.5})(Sr_{2-x}La_x)CuO_{5-\delta}$ 237
–of Rb_3C_{60} 305
–of $Sr_2CuO_2(CO_3)_{1-x}(BO_3)_x$ 453
–of $Tl_{1-x}Bi_xSr_{2-y}Ba_yCa_2Cu_3O_{9-\delta}$ 199

–of $(Y_{1-x}Pr_x)Ba_2Cu_3O_y$ 447
–of $YBa_2Cu_3O_{7-\delta}$ 333

Thermal conductivity 147, 187
Thermal expansion 77
Thick film 325
Thin films 153, 284, 333, 365
Tunneling 293
Twin boundaries 205
Type II superconductors 49, 315, 432

Ultrasound attenuation 116

Whiskers 471

XPS 160, 333
X-ray diffraction 21, 29, 59, 99, 129, 181, 195, 211, 257, 458, 478